
Alaska Telephone Association

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November 2, 2016

Ms. Marlene Dortch
Secretary
Federal Communications Commission
445 12th Street, SW
Room TW-A325
Washington, DC 20554

RE: Ex parte filing in WC Docket No. 16-271

Dear Ms. Dortch:

Alaska Telephone Association member companies submit additional information in the attached performance obligations detailing improvements in mobile broadband service which will be enabled through adoption of the Alaska Infrastructure Fund.

Pursuant to Section 1.1206 of the Commission's rules, this ex parte letter is being filed via ECFS in WC Docket 16-271.

Respectfully submitted,

Via ECFS 11/02/2016

Christine O'Connor
Executive Director

cc: Peter Trachtenberg
Matthew Warner

Bristol Bay Cellular Partnership

| | Note 1 | | Note 2 | | | | | | | | | | | |
|-----------------|------------------------------|---------------------------------|------------------------------------|--|---|---|-------------------------------------|---|---|---|--------------------------------------|-----------------------------------|---|--|
| Middle Mile | Population 2010 Census | Spectrum Codes (477 Code) | Population Served 12/31/2015 | % Base Population Served 12/31/15 | Technology Of Transmission (477 Code) | Minimum Expected Download/ Upload Speeds | 5 Year Base Population Served | 5 Year % Total Population Served | Technology Of Transmission (477 Code) | Minimum Expected Download/ Upload Speeds | 10 Year Base Population Served | 10 Year % Population Served | Technology Of Transmission (477 Code) | Minimum Expected Download/ Upload Speeds |
| Satellite | | | | | | | | | | | | | | |
| Microwave/Fiber | 997 | 91 | 997 | 100% | 86 | N/A | 997 | 100% | 86 | N/A | 997 | 100% | 86 | N/A |
| | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | |
| Fiber | | | | | | | | | | | | | | |

Note 1: Population per 2010 Census in service area. Excludes population served by AT&T and/or Verizon at 4G LTE using their infrastructure.

Note 2: Percentage of population served at benchmark speeds as of 12/31/2015.

Note 3: Year 1 is 2017

Note 4: Bristol Bay Cellular Partnership is building an LTE network but is constrained from offering mobile broadband due to middle mile cost and availability. If affordable middle mile becomes available, BBCP will be able to deliver at least 4Mbps/1Mbps speeds by Year 5 and 10Mbps/1Mbps by Year 10.

Cordova Wireless

| Note 1 | | Note 2 | | | | | | | | | | | | |
|-------------|------------------------|---------------------------|----------------------------|-----------------------------------|---------------------------------------|---|-------------------------------|----------------------------------|---------------------------------------|---|--------------------------------|-----------------------------|---------------------------------------|---|
| Middle Mile | Population 2010 Census | Spectrum Codes (477 Code) | Population Served 12/31/15 | % Base Population Served 12/31/15 | Technology Of Transmission (477 Code) | Minimum Expected Upload/Download Speeds | 5 Year Base Population Served | 5 Year % Total Population Served | Technology Of Transmission (477 Code) | Minimum Expected Upload/Download Speeds | 10 Year Base Population Served | 10 Year % Population Served | Technology Of Transmission (477 Code) | Minimum Expected Upload/Download Speeds |
| Satellite | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | |
| Microwave | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | |
| Fiber | 4,000 | | | | | | | | | | | | | |
| | | 91 | 2,400 | 100% | 86 | Voice Only | 2,400 | 100% | 83 | 10/1 | 2,400 | 100% | 83 | 25/5 |
| | | | | | | | | | | | | | | |

Note 1: Population per 2010 Census in service area. Excludes population served by AT&T and/or Verizon at 4G LTE using their infrastructure.

Note 2: Percentage of population served at benchmark speeds as of 12/31/15.

Note 3: Year 1 is 2017

Copper Valley Wireless, LLC

| Note 1 | | | Note 2 | | | | | | | | | | | |
|-------------|------------------------|---------------------------|----------------------------|-----------------------------------|---------------------------------------|---|-------------------------------|----------------------------------|---------------------------------------|---|--------------------------------------|-----------------------------|---------------------------------------|---|
| Middle Mile | Population 2010 Census | Spectrum Codes (477 Code) | Population Served 12/31/15 | % Base Population Served 12/31/15 | Technology Of Transmission (477 Code) | Minimum Expected Upload/Download Speeds | 5 Year Base Population Served | 5 Year % Total Population Served | Technology Of Transmission (477 Code) | Minimum Expected Upload/Download Speeds | 10 Year Total Base Population Served | 10 Year % Population Served | Technology Of Transmission (477 Code) | Minimum Expected Upload/Download Speeds |
| Satellite | NA | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | |
| Microwave | 2,426 | 90 | | | | | | | | | | | | |
| | | | 2,377 | 98% | 83 | 10MB/3MB | 2,377 | 98% | 83 | 10MB/3MB | 2,377 | 98% | 83 | 10MB/3MB |
| Fiber | 6,708 | 90 | | | | | | | | | | | | |
| | | | 202 | 3% | 85 | 1MB/.8MB | | | | | | | | |
| | | | 6,171 | 92% | 83 | 10MB/3MB | 6,373 | 95% | 83 | 10MB/3MB | 6,373 | 95% | 83 | 10MB/3MB |

Note 1: Population per 2010 Census in service area. Excludes population served by AT&T and/or Verizon at 4G LTE using their infrastructure.

Note 2: Percentage of population served at benchmark speeds as of 12/31/15.

Note 3: Year 1 is 2017

OTZ Wireless

| Note 1 | | Note 2 | | | | Note 5 | | | | | | | | |
|-------------|-----------------------------|---------------------------|---------------------------------|-----------------------------------|---------------------------------------|--|-------------------------------|----------------------------------|---------------------------------------|--|--------------------------------------|-----------------------------|---------------------------------------|--|
| Middle Mile | Base Population 2010 Census | Spectrum Codes (477 Code) | Base Population Served 12/31/15 | % Base Population Served 12/31/15 | Technology Of Transmission (477 Code) | Minimum Expected Download/ Upload Speeds | 5 Year Base Population Served | 5 Year % Total Population Served | Technology Of Transmission (477 Code) | Minimum Expected Download/ Upload Speeds | 10 Year Total Base Population Served | 10 Year % Population Served | Technology Of Transmission (477 Code) | Minimum Expected Download/ Upload Speeds |
| Satellite | 7,523 | 91 | 4,712 | 62.6% | 86 | No Data available | 0 (Note 4) | | | | | | | |
| | | 91 | | | | | 4,317 | 57.4% | 83 | 2Mb/0.5Mb | 4,317 | 57.4% | 83 | 2Mb/0.5Mb |
| | | | | | | | | | | | | | | |
| Microwave | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | |
| Fiber | | | | | | | | | | | | | | |
| | | 91 | | | | | 3,206 | 100% | 83 | 4Mb/1Mb | 3,206 | 100% | 83 | 4Mb/1Mb |
| | | | | | | | | | | | | | | |

Note 1: Population per 2010 Census in service area. Excludes population served by AT&T and/or Verizon at 4G LTE using their infrastructure.

Note 2: Population served at benchmark speeds as of 12/31/15. The difference between Base Population 2010 Census and Base Population Served as of 12/31/2015 is the unserved population as of that date.

Note 3: Year 1 is 2017.

Note 4: OTZ plans on sunsetting GSM voice-only service.

Note 5: Kotzebue will be the only location served with fiber backhaul, all other locations will be served with satellite backhaul.

TelAlaska Cellular, Inc.

| Note 1 | | Note 2 | | | | | | | | | | | | |
|-------------|---------------------------|---------------------------------|----------------------------------|--|---|--|-------------------------------------|---|---|--|--------------------------------------|-----------------------------------|---|--|
| Middle Mile | Population 2010 Census | Spectrum Codes (477 Code) | Population Served 12/31/15 | % Base Population Served 12/31/15 | Technology Of Transmission (477 Code) | Minimum Expected Download/ Upload Speeds | 5 Year Base Population Served | 5 Year % Total Population Served | Technology Of Transmission (477 Code) | Minimum Expected Download/ Upload Speeds | 10 Year Base Population Served | 10 Year % Population Served | Technology Of Transmission (477 Code) | Minimum Expected Download/ Upload Speeds |
| Satellite | 15,198 | 91 | 14,590 | 96% | 86 | 256 Kbps/ 256 Kbps | 6,079 | 40% | 86 | 256 Kbps/ 256 Kbps | 3,040 | 20% | 86 | 256 Kbps/ 256 Kbps |
| | | 91 | 2,888 | 19% | 80 | 1.0 Mbps/ 128 Kbps | 4,863 | 32% | 80 | 1.0 Mbps/ 128 Kbps | 6,231 | 41% | 80 | 1.0 Mbps/ 128 Kbps |
| | | 91 | | | | | 3,800 | 25% | 83 | 1.0 Mbps/ 128 Kbps | 5,623 | 37% | 83 | 1.0 Mbps/ 128 Kbps |
| Microwave | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | |
| Fiber | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | |

Note 1: Population per 2010 Census in service area. Excludes population served by AT&T and/or Verizon at 4G LTE using their infrastructure.

Note 2: Percentage of population served at benchmark speeds as of 12/31/15.

Note 3: Year 1 is 2017

Note 4: Population Served Changes - The 2010 census population served at 12/31/14 is 96% covered by 2G technology. In addition, there is also 3G coverage, an overlap in technologies covering 19% of total population. In year 5, the technology used is transitioning off of 2G, a decrease of approximately 56%. At the same time, 3G technology is growing and 4G technology is being implemented. The decrease in population served by the transition away from 2G is greater than the population served by 3G and 4G. Overall, population served has increased from 96% to 97%. Similarly, in year 10, an additional 20% are transitioned off of 2G. 3G and 4G service continues to grow. Total population served increases to 98%.

TelAlaska Cellular, Inc. (TCI) service area is 100% served by satellite middle mile. The physical limitations of satellite middle mile do not allow for latency below 100 milliseconds. In addition, cost factors do not allow for data allowance at or above 150,000 MB. Upload and download speeds are also limited due to the high cost of satellite bandwidth.

Alaska Plan

Windy City Cellular

| Note 1 | | | Note 2 | | | | | | | | | | | |
|-------------|------------------------------|---------------------------------|------------------------------------|--|--|--|--|---|--|--|---|---------------------------------------|--|--|
| | Population 2010 Census | Spectrum Codes (477 Code) | Population Served 12/31/2015 | % Base Population Served 12/31/2015 | Technology of Transmission (477 Code) | Minimum Expected Upload/ Download Speeds | 5-Year Base Population Served | 5-Year % Total Populatio n Served | Technology of Transmission (477 Code) | Minimum Expected Upload/ Download Speeds | 10-Year Base Population Served | 10-Year % Populatio n Served | Technology of Transmission (477 Code) | Minimum Expected Upload/ Download Speeds |
| Middle Mile | 325 | 91 | 325 | 100% | 86 | 200k/200k | 325 | 100% | 86 | 200k/200k | 325 | 100% | 86 | 200k/200k |
| 200kb | 325 | 91 | 325 | 100% | 86 | 200k/200k | 325 | 100% | 86 | 200k/200k | 325 | 100% | 86 | 200k/200k |
| 500kb | 325 | 91 | 325 | 100% | 86 | 200k/200k | 325 | 100% | 86 | 200k/200k | 325 | 100% | 86 | 200k/200k |
| 1,000kb | 325 | 91 | 325 | 100% | 86 | 200k/200k | 325 | 100% | 86 | 200k/200k | 325 | 100% | 86 | 200k/200k |
| Satellite | 325 | 91 | 325 | 100% | 86 | 200k/200k | 325 | 100% | 86 | 200k/200k | 325 | 100% | 86 | 200k/200k |

Note 1: Population per 2010 Census in service area. Excludes population served by AT&T and/or Verizon at 4G LTE using their infrastructure.

Note 2: Percentage of population served at benchmark speeds as of 12/31/2015.

Note 3: Year 1 is 2017